

## Air quality and seasonal variations in consultations for respiratory, allergic, dermatological and gastrointestinal diseases in Bahrain, 2007

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### Abstract:

Environmental health data in Bahrain are scarce. This study in 4 governorates of Bahrain aimed to establish baseline data on the seasonal prevalence of certain disease groups that are sensitive to climate (respiratory, allergic, dermatological and non-specific gastrointestinal diseases) over a 1-year period and to record local climate and air pollutant data for the same year. A 5% sample of medical records for those who attended primary health-care centres during 2007 was taken. Visit rates for all 4 diseases had peaks, in spring and in autumn, with the lowest rates in the summer season when the average temperatures were highest and average humidity was lower. Respiratory-related visits were highest when the air concentrations of SO<sub>2</sub> were highest. An ongoing surveillance system for climate-sensitive diseases should be initiated to monitor and relate health and environmental trends.

### Source:

<http://www.emro.who.int/emhj-vol-20-2014/volume-20-5/air-quality-and-seasonal-variations-in-consultations-for-respiratory-allergic-dermatological-and-gastrointestinal-diseases-in-bahrain-2007.html>

### Resource Description

#### Exposure : ■

weather or climate related pathway by which climate change affects health

Air Pollution, Precipitation, Temperature

**Air Pollution:** Ozone, Particulate Matter, Other Air Pollution

**Air Pollution (other):** SO<sub>2</sub>;NO<sub>2</sub>;CO

**Temperature:** Fluctuations

#### Geographic Feature: ■

resource focuses on specific type of geography

Ocean/Coastal

#### Geographic Location: ■

resource focuses on specific location

Non-United States

**Non-United States:** Asia

**Asian Region/Country:** Other Asian Country

**Other Asian Country:** Bahrain

#### Health Impact: ■

specification of health effect or disease related to climate change exposure

Dermatological Effect, Infectious Disease, Respiratory Effect

**Infectious Disease:** Foodborne/Waterborne Disease

**Foodborne/Waterborne Disease (other):** gastroenteritis

**Respiratory Effect:** Asthma, Bronchitis/Pneumonia, Upper Respiratory Allergy, Other Respiratory Effect

**Respiratory Condition (other) :** emphysema

#### Population of Concern: A focus of content

#### Population of Concern: ■

populations at particular risk or vulnerability to climate change impacts

Children, Elderly

#### Resource Type: ■

format or standard characteristic of resource

Research Article

#### Timescale: ■

time period studied

Time Scale Unspecified